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## What is claimed is:

- A composite which is obtained by heating and drying of a mixture of a carrier in powder form, and a metal hydroxide in powder form or in molten form.
- The composite according to Claim 1, wherein the heating proceeds at a temperature of not less than 80 °C to less than 200 °C.
  - The composite according to Claim 1, wherein the heating proceeds at a temperature of not less than 200 °C to less than 400 °C.
    - 4. The composite according to Claim 1, wherein the carrier is a porous material.
  - The composite according to Claim 4, wherein the porous material is a heat resistant inorganic substance.
  - The composite according to Claim 5, wherein the heat resistant inorganic substance is silica or alumina.
- The composite according to Claim 1, wherein the carrier is a carbonaceous
  material.
  - The composite according to Claim 7, wherein the carbonaceous material is coal,
    petroleum, an infusibilized product or heat-treated product after infusibilization of a synthetic

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pitch, or an active carbon.

- The composite according to Claim 1, wherein the metal hydroxide is potassium hydroxide or sodium hydroxide.
- 10. The composite according to Claim 1, wherein a mean particle size of the carrier before mixing is 0.1 mm or less, and a mean particle size of the metal hydroxide is 1 mm or less.
- 11. The composite according to Claim 1, wherein the metal hydroxide is mixed in an amount of 1 to 1000 parts by weight per 100 parts by weight of the carrier.
- 12. The composite according to Claim 1, wherein no peak derived from metal hydroxide crystals is present in an X-ray diffraction intensity curve of the composite.
- 13. The composite according to Claim 1, wherein no background peak derived from water is present in an X-ray diffraction intensity curve of the composite.
- 14. The composite according to Claim 1, which is a catalyst for an isomerization reaction of an olefin.
- 15. The composite according to Claim 1, which is a catalyst for an oxidation reaction of alcohols.

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16. A method for manufacturing a composite, comprising:

mixing a carrier in powder form and a metal hydroxide in powder form and heating and drying the resulting mixture under a gas flow or under reduced pressure.

- 17. The method according to Claim 16, wherein the gas is air, an inert gas or a mixture thereof.
  - 18. The method according to Claim 16, wherein the heating proceeds at a temperature of not less than 80 to less than 200  $^{\circ}$ C.
  - 19. The method according to Claim 16, wherein the heating proceeds at a temperature of not less than 200  $^{\circ}\text{C}$  to less than 400  $^{\circ}\text{C}$ .